WHAT IS CLAIMED IS:

1. A compound of the formula

$$\begin{array}{c|c} R_1 & H & R_2 \\ \hline \\ MeO & N & R_3 \\ \end{array}$$

wherein

 R_1 is hydrogen, halo, or nitrate,

 R_2 is C_4 - C_{20} aryl, and

 $R_{3} \text{ is } C_{1}-C_{30} \text{ alkyl, } C_{2}-C_{22} \text{ alkenyl, } C_{4}-C_{20} \text{ aryl, } OR_{4}, SR_{4}, NR_{4}R_{5}, (CH_{2})_{n}OR_{4}, \\ (CH_{2})_{n}SR_{4}, (CH_{2})_{n}NR_{4}R_{5}, (CH_{2})_{n}COR_{5}.$

wherein

n is 0-10;

 R_4 and R_5 , which can be the same or different, are hydrogen, $C_1\text{-}C_8$ alkyl, $C_1\text{-}C_6$ alkenyl and $C_4\text{-}C_{10}$ aryl.

- 2. The compound of claim 1, wherein R_3 is C_1 - C_6 alkyl or C_1 - C_6 alkoxy.
- 3. The compound of claim 1, wherein R_1 is hydrogen, R_2 is C_4 - C_{20} aryl, and R_3 is methyl.
- 4. The compound of claim 1, wherein R_1 is hydrogen, R_2 is C_4 - C_{20} aryl, and R_3 is ethyl.
- 5. The compound of claim 1, wherein R_1 is hydrogen, R_2 is C_4 - C_{20} aryl, and R_3 is cyclopropyl.
- 6. The compound of claim 1, wherein R_1 is hydrogen, R_2 is C_4 - C_{20} aryl, and R_3 is cyclobutyl.
- 7. The compound of claim 1, wherein R_1 is hydrogen, R_2 is C_4 - C_{20} aryl, and R_3 is methoxy.

- The compound of claim 1, wherein R₁ is hydrogen, R₂ is C₄-C₂₀ aryl, and R₃ is 8. ethoxy.
- The compound of claim 1, wherein R_1 is hydrogen, R_2 is C_4 - C_{20} aryl, and R_3 is 9. amino.
- 10. The compound of claim 1, wherein R₁ is hydrogen, R₂ is C₄-C₂₀ aryl, and R₃ is dimethylamino.
- The compound of claim 3, wherein R₂ is selected from the group consisting of 11. 4-(fluorophenyl), 3-(fluorophenyl), 2-(fluorophenyl), 4-(chlorophenyl), 3-(chlorophenyl), 2-(chlorophenyl), 4-(methylphenyl), 3-(methylphenyl), 2-(methylphenyl), 4-(methoxyphenyl), 3-(methoxyphenyl), 2-(methoxyphenyl), 4-(ethoxyphenyl), 3-(ethoxyphenyl), 2-(ethoxyphenyl), 4-(vinylphenyl), 4-(acetylphenyl), 3-(acetylphenyl),
- 2-(acetylphenyl), 4-(trifluoromethylphenyl), 3-(trifluoromethylphenyl),
- 4-(trimethylsilylphenyl), 3-(trimethylsilylphenyl), 4-(methylthiophenyl), 4-(tert-butylphenyl),
- 4-(dimethylaminophenyl), 4-(ethylphenyl), 4-(benzoxyphenyl), 4-(biphenyl), 2-furanyl,
- 2-(thiophenyl), 2-(5-methylthiophenyl), 3-(thiophenyl), 2-(indolyl), 1-(naphthalenyl),
- 2-(naphthalenyl), 4-(dibenzofuranyl), 1-(thianthrenyl), 2,3-(dichlorophenyl),
- 2,5-(dichlorophenyl), 3,4-(dichlorophenyl), 3,5-(dichlorophenyl), 2,3-(difluorophenyl),
- 2.4-(difluorophenyl), 2.5-(difluorophenyl), 2.6-(difluorophenyl), 3.4-(difluorophenyl),
- 3,5-(difluorophenyl), 3,5-(dibromophenyl), 3,5-(bis(trifluoromethyl)phenyl),
- 2,3-(dimethylphenyl), 2,5-(dimethylphenyl), 2,6-(dimethylphenyl), 3,5-(dimethylphenyl),
- 2,4-(dimethoxyphenyl), 2,5-(dimethoxyphenyl), 3,4-(dimethoxyphenyl),
- 2,3,4-(trimethoxyphenyl), 2,4,6-(trifluorophenyl), and 2,3,4,5,6-(pentaflurophenyl).
- 12. The compound of any of claims 2-10, wherein R_2 is selected from the group consisting of phenyl, 4-(fluorophenyl), 3-(fluorophenyl), 2-(fluorophenyl), 4-(chlorophenyl), 3-(chlorophenyl), 2-(chlorophenyl), 4-(methylphenyl), 3-(methylphenyl), 2-(methylphenyl), 4-(methoxyphenyl), 3-(methoxyphenyl), 2-(methoxyphenyl), 4-(ethoxyphenyl), 3-(ethoxyphenyl), 2-(ethoxyphenyl), 4-(vinylphenyl), 4-(acetylphenyl), 3-(acetylphenyl), 2-(acetylphenyl), 4-(trifluoromethylphenyl), 3-(trifluoromethylphenyl), 4-(trimethylsilylphenyl), 3-(trimethylsilylphenyl), 4-(methylthiophenyl), 4-(tert-butylphenyl), 4-(dimethylaminophenyl), 4-(ethylphenyl), 4-(benzoxyphenyl), 4-(biphenyl), 2-furanyl, 2-(thiophenyl), 2-(5-methylthiophenyl), 3-(thiophenyl), 2-(indolyl), 1-(naphthalenyl), 2-(naphthalenyl), 4-(dibenzofuranyl), 1-(thianthrenyl), 2,3-(dichlorophenyl),
- 2,5-(dichlorophenyl), 3,4-(dichlorophenyl), 3,5-(dichlorophenyl), 2,3-(difluorophenyl),
- 2,4-(difluorophenyl), 2,5-(difluorophenyl), 2,6-(difluorophenyl), 3,4-(difluorophenyl),

- 3,5-(difluorophenyl), 3,5-(dibromophenyl), 3,5-(bis(trifluoromethyl)phenyl),
- 2,3-(dimethylphenyl), 2,5-(dimethylphenyl), 2,6-(dimethylphenyl), 3,5-(dimethylphenyl),
- 2,4-(dimethoxyphenyl), 2,5-(dimethoxyphenyl), 3,4-(dimethoxyphenyl),
- 2,3,4-(trimethoxyphenyl), 2,4,6-(trifluorophenyl), and 2,3,4,5,6-(pentaflurophenyl).
- 13. The compound of claim 1, wherein the compound is N-(2-(2-(4-fluorophenyl)-5-methoxy-1*H*-indol-3-yl)ethyl)acetamide.
- 14. The compound of claim 1, wherein the compound is N-(2-(5-methoxy-2-methoxyphenyl-1H-indol-3-yl)ethyl) acetamide.
- 15. The compound of claim 1, wherein the compound is N-(2-(5-methoxy-2-p-tolyl-1H-indol-3-y1)ethyl) acetamide.
- 16. The compound of claim 1, wherein the compound is N-(2-(4-tert-butylphenyl)-5-methoxy-1H-indol-3-yl)ethyl)acetamide.
- 17. The compound of claim 1, wherein the compound is N-(2-(2-(3-trifluoromethylphenyl)-5-methoxy-1H-indol-3-yl)ethyl) acetamide.
- 18. The compound of claim 1, wherein the compound is N-(2-(4-trifluoromethylphenyl)-5-methoxy-1H-indol-3-yl)ethyl) acetamide.
- 19. A method for preparing the compound of claim 1, which method comprises reacting a 2-halo melatonin with anyl boronic acid in the presence of palladium catalyst.
- 20. A method for preparing the compound of claim 2, which method comprises reacting a 2-halo melatonin with aryl boronic acid in the presence of palladium catalyst.
- 21. A pharmaceutical composition comprising a therapeutically effective amount of the compound of claim 1 and a pharmaceutically acceptable carrier or diluent.
- 22. A pharmaceutical composition comprising a therapeutically effective amount of the compound of claim 2 and a pharmaceutically acceptable carrier or diluent.
- 23. The pharmaceutical composition of claim 21, wherein the pharmaceutical composition comprises nanoparticles of the compound of claim 1.
- 24. The pharmaceutical composition of claim 22, wherein the pharmaceutical composition comprises nanoparticles of the compound of claim 2.

- 25. The pharmaceutical composition of claim 21, wherein the pharmaceutical composition comprises an anesthetic inducing effective amount of the compound of claim 1 and a pharmaceutically acceptable anesthetic carrier.
- 26. The pharmaceutical composition of claim 22, wherein the pharmaceutical composition comprises an anesthetic inducing effective amount of the compound of claim 2 and a pharmaceutically acceptable anesthetic carrier.
- 27. A method of inducing sedation, hypnosis and/or sleep, or general anesthesia in a patient, which method comprises administering to the patient a therapeutically effective amount of the pharmaceutical composition of claim 21.
- 28. A method of inducing sedation, hypnosis and/or sleep, or general anesthesia in a patient, which method comprises administering to the patient a therapeutically effective amount of the pharmaceutical composition of claim 22.
- 29. The method of claim 27, wherein said administering is by a method selected from the group consisting of oral administration, nasal respiratory administration, bolus injection, intravenous administration, continuing infusion, rectal administration, vaginal administration, sublingual administration, and cutaneous administration.
- 30. The method of claim 28, wherein said administering is by a method selected from the group consisting of oral administration, nasal respiratory administration, bolus injection, intravenous administration, continuing infusion, rectal administration, vaginal administration, sublingual administration, and cutaneous administration.
- 31. A method for treating sleep disorders or chronobiological disorders in a patient, which method comprises administering to the patient a therapeutically effective amount of the pharmaceutical composition of claim 21.
- 32. A method for treating sleep disorders or chronobiological disorders in a patient, which method comprises administering to the patient a therapeutically effective amount of the pharmaceutical composition of claim 22.
- 33. A method for treating a condition affected by melatonin activity in a patient, which method comprises administering to the patient a therapeutically effective amount of the pharmaceutical composition of claim 21.

- 34. A method for treating a condition affected by melatonin activity in a patient, which method comprises administering to the patient a therapeutically effective amount of the pharmaceutical composition of claim 22.
- 35. The method of claim 33, wherein the condition affected by melatonin activity is selected from the group consisting of depression, epilepsy, jet-lag, work-shift syndrome, sleep disorders, glaucoma, reproduction, cancer, premenstrual syndrome, immune disorders, inflammatory articular diseases, neurodegenerative diseases of the central nervous system, and neuroendocrine disorders.
- 36. The method of claim 34, wherein the condition affected by melatonin activity is selected from the group consisting of depression, epilepsy, jet-lag, work-shift syndrome, sleep disorders, glaucoma, reproduction, cancer, premenstrual syndrome, immune disorders, inflammatory articular diseases, neurodegenerative diseases of the central nervous system, and neuroendocrine disorders.